

Motor vehicle rear axle and method of producing same

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The invention relates to an integral motor vehicle rear axle of the twist-beam axle type, which comprises an opposed pair of longitudinal control arms (2) of a high flexural strength and torsional stiffness for carrying a wheel carrier for a wheel, and a transverse strut (3) which is resistant to bending but resilient relative to torsional stress and which comprises a profiled cross-section changing the position of the shear center. The transverse strut (3) consists of an extruded aluminum profile with an extrusion structure extending in the longitudinal direction of the transverse strut. A method of producing a motor vehicle rear axle of the twist-beam axle type using transverse struts and longitudinal control arms consists in joining the longitudinal control arms (2) with a transverse carrier (3) which, at its end, comprises a bore, opening or bonding surface extending transversely to the longitudinal axis, and in connecting said longitudinal control arms by hydro-forming in a form-fitting and force-locking way.

